

**PENDING CLAIMS**

The following is a list of currently pending claims. Please cancel claims 9 and 14.  
Please amend claim 16 as shown.

1. (Original) A semiconductor die comprising:
  - a substrate device level having a substrate pitch; and
  - a first above-substrate device level formed above the substrate device level, the first above-substrate device level having a first above-substrate pitch, wherein the first above-substrate pitch is smaller than the substrate pitch.
2. (Original) The semiconductor die of claim 1 wherein the first above-substrate device level comprises a first plurality of memory cells.
3. (Original) The semiconductor die of claim 2 wherein the substrate device level comprises driver circuitry.
4. (Original) The semiconductor die of claim 3 wherein the first above-substrate device level comprises:
  - a first area, said first area comprising portions of the first plurality of memory cells, the memory cells having the first above-substrate pitch; and
  - a second area, said second area having a fan-out pitch, wherein said fan-out pitch is larger than the first above-substrate pitch.
5. (Original) The semiconductor die of claim 4 wherein the first area comprises a plurality of substantially parallel, substantially coplanar rails.
6. (Original) The semiconductor die of claim 5 wherein photolithography processes are optimized to minimize the first above-substrate pitch of the plurality of rails in the first area.

7. (Original) The semiconductor die of claim 6 wherein the plurality of rails is patterned using off-axis illumination.
8. (Original) The semiconductor die of claim 7 wherein the plurality of rails is patterned using a dipole illumination aperture.
9. (Cancelled)
10. (Original) The semiconductor die of claim 5 further comprising a second above-substrate device level formed over the first above-substrate device level, the second above-substrate device level having a second above-substrate pitch, wherein the second above-substrate pitch is smaller than the substrate pitch.
11. (Original) The semiconductor die of claim 5 wherein the rails comprise a first plurality of memory lines electrically connected to a first plurality of vertical interconnects at a first end and a second plurality of memory lines electrically connected to a second plurality of vertical interconnects at a second end opposite the first end, the first and second pluralities interleaved.
12. (Original) The semiconductor die of claim 2 wherein the plurality of memory cells form part of a monolithic three dimensional memory array.
13. (Original) The semiconductor die of claim 12 wherein the memory array comprises segmented bit lines and global bit lines, wherein two segmented bit lines share a vertical connection to an associated global bit line.
14. (Cancelled)
15. (Original) The semiconductor die of claim 2 wherein the memory cells are passive element memory cells.

16. (Currently amended) The semiconductor die of claim 156 wherein the memory cells are antifuse-diode cells.
17. (Original) The semiconductor die of claim 2 wherein the memory cells are thin film transistors having a charge-storage dielectric.
18. (Original) The semiconductor die of claim 17 wherein the memory cells are arranged in series-connected NAND strings.
- 19.-57. (Withdrawn)

**CLAIM AMENDMENTS: DISCUSSION**

Claim 16 was objected to because it improperly depended from itself. Applicants have amended claim 16 to amend from claim 15, as was originally intended. Applicants appreciate the Examiner's identification of this error.